

SERVICE  
MANUAL

ET243

**marantz®**

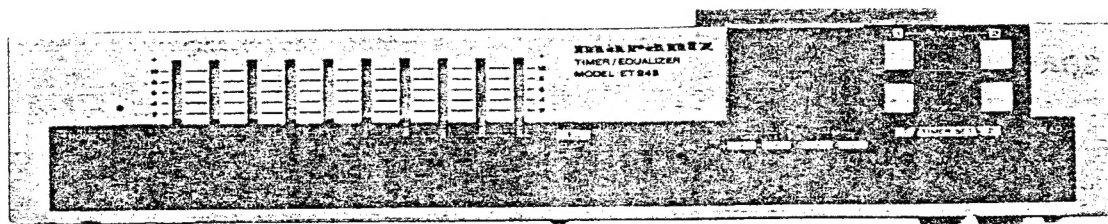
model ET243

*Timer/Equalizer*

## TABLE OF CONTENTS

SECTION	PAGE
INTRODUCTION .....	1
1. P.W. BOARDS .....	1
2. VOLTAGE CONVERSION .....	1
3. SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS .....	2
3.1 Main Assembly (PU00) Schematic Diagram and Component Locations .....	2
3.2 Output Connector Assembly (PW50) Schematic Diagram and Component Locations .....	2
3.3 Display Assembly (PR00) Schematic Diagram and Component Locations .....	3
3.4 EQ Volume Assembly (PF00) Schematic Diagram and Component Locations .....	5
3.5 Input Connector Assembly (PW00) Schematic Diagram and Component Locations .....	5
3.6 Frequency Switch Assembly (PS00) Schematic Diagram and Component Locations .....	5
3.7 Power Switch Assembly (PT00) Schematic Diagram and Component Locations .....	5
4. EXPLODED VIEW AND PARTS LIST .....	6
5. ELECTRICAL PARTS LIST .....	8
6. TECHNICAL SPECIFICATIONS .....	11
7. SCHEMATIC DIAGRAM .....	12

# MARANTZ MODEL ET243 TIMER/EQUALIZER



## INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for the Marantz Model ET243 Timer/Equalizer.

Servicing information and voltage data included in this manual are intended for use by knowledgeable and experienced personnel only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of circuitry operation.

The parts list furnishes complete ordering information. Most replacement parts should be ordered from the Marantz Company. However, a simple description is included for parts which can be obtained locally.

## 1. P.W. BOARDS

As can be seen from the circuit diagram the chassis of Model ET243 consists of the following units. Each unit mounted on a printed circuit board is described within the square enclosed by a bold dotted line on the circuit diagram.

1. EQ Volume . . . . . mounted on P.W. Board PF00
2. Display . . . . . mounted on P.W. Board PR00
3. Frequency Switch . . . . . mounted on P.W. Board PS00
4. Power Switch . . . . . mounted on P.W. Board PT00
5. Main . . . . . mounted on P.W. Board PU00
6. Input Connector . . . . . mounted on P.W. Board PW00
7. Output Connector . . . . . mounted on P.W. Board PW50

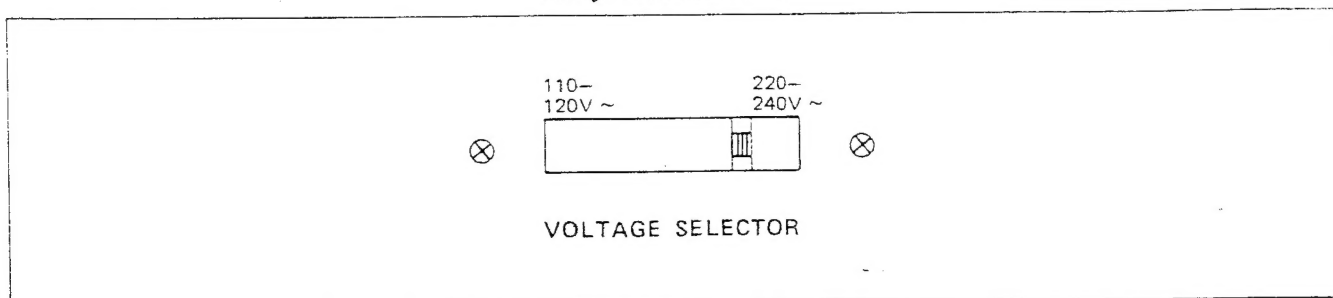
## 2. VOLTAGE CONVERSION

### • EUROPEAN MODEL ONLY

To convert the unit to a different power source voltage, change the position as illustrated in the drawing below.

**CAUTION**  
DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE.

Voltage Conversion Chart

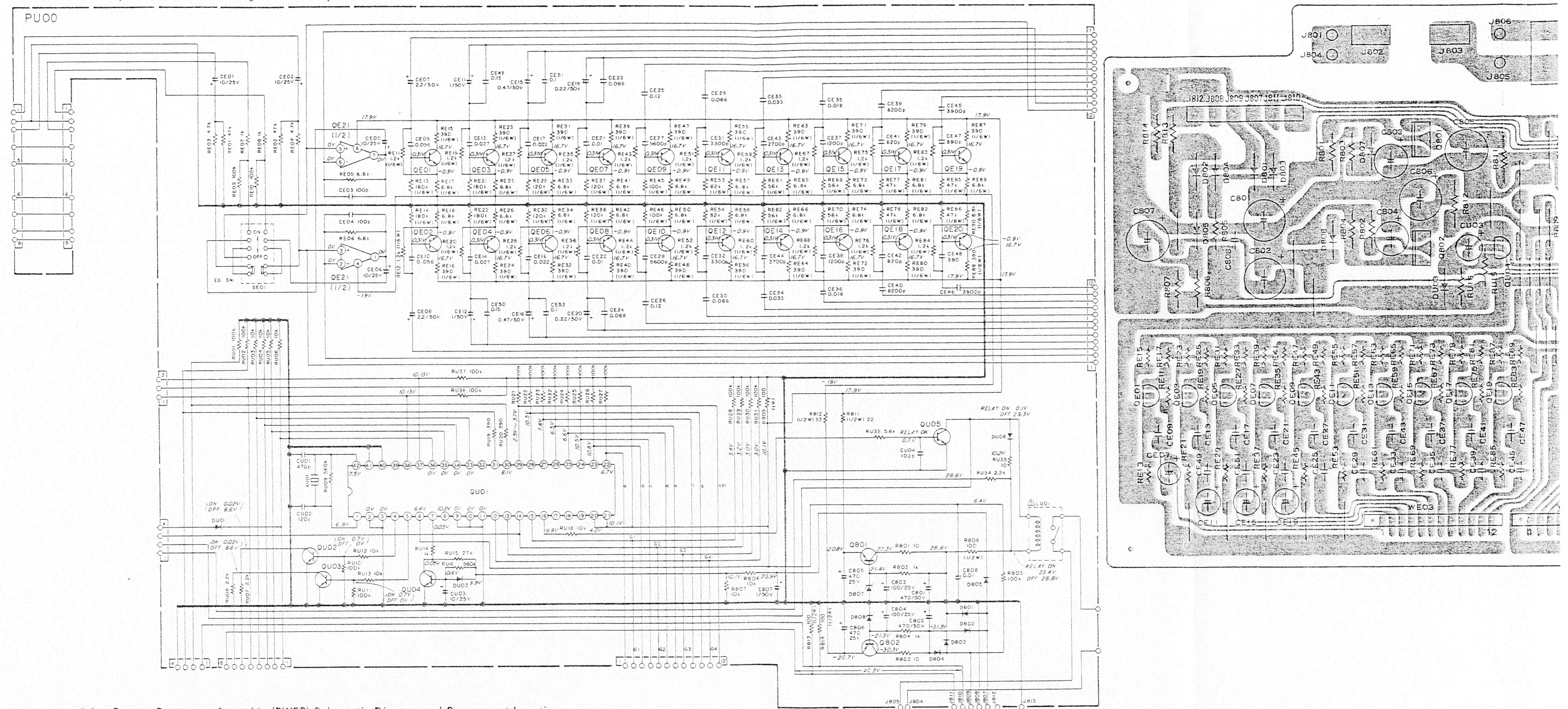


**Note on safety:** Symbol  $\triangle$  Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol  $\triangle$ . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

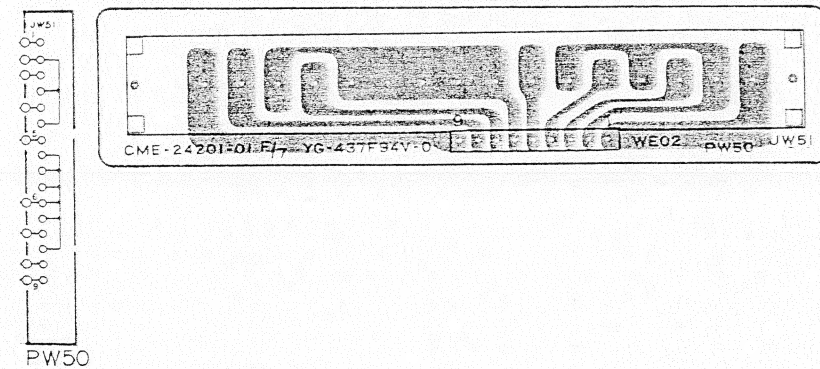


### 3. SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS

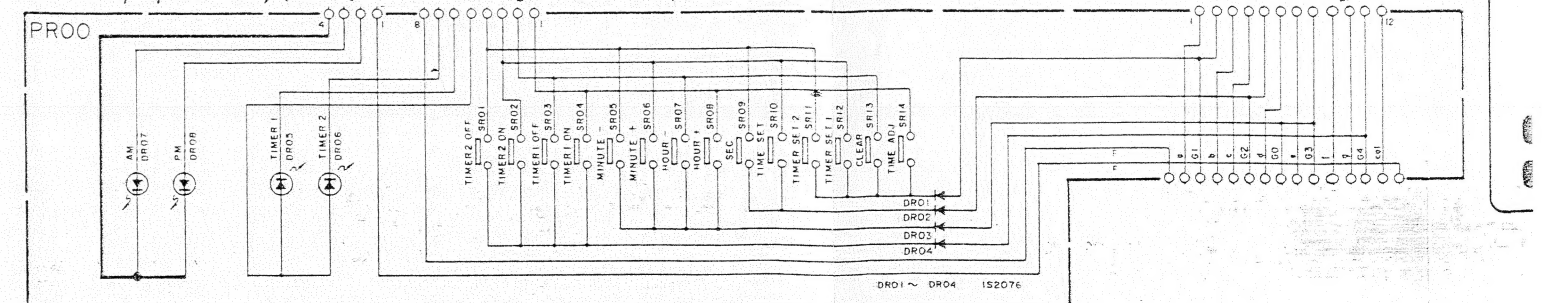
#### 3.1 Main Assembly (PU00) Schematic Diagram and Component Locations



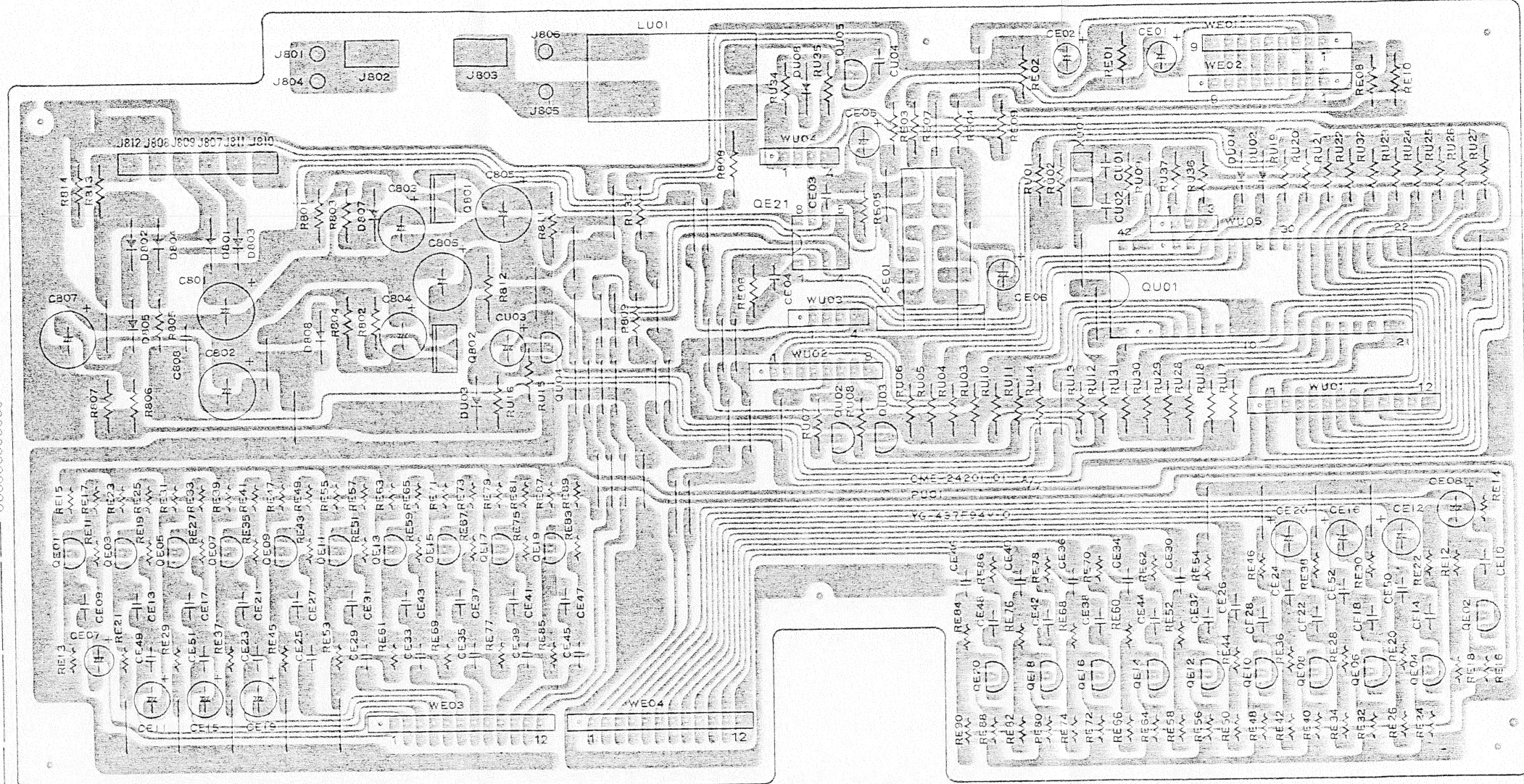
#### 3.2 Output Connector Assembly (PW50) Schematic Diagram and Component Locations



#### 3.3 Display Assembly (PR00) Schematic Diagram and Component Locations

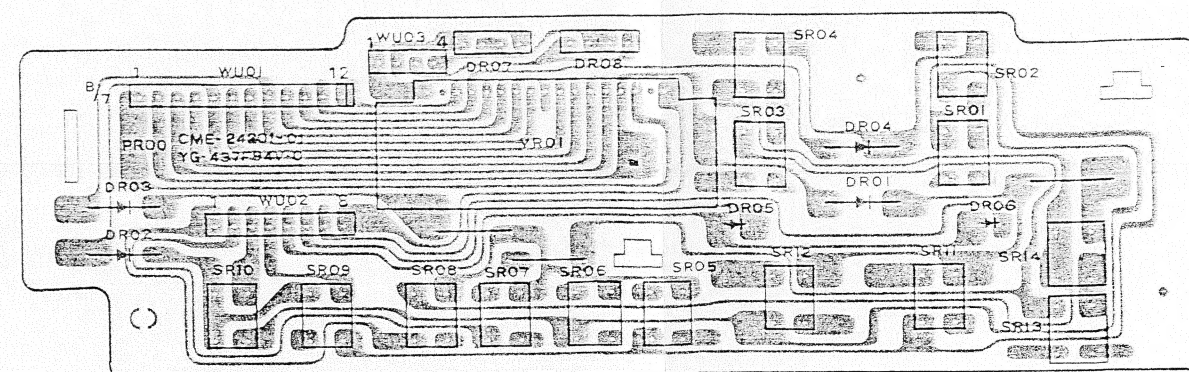






5.3 Display Assembly (PRO0) Schematic Diagram and Component Locations

The schematic diagram illustrates the electrical connections for the Display Assembly (PRO0). It features a power input section with an AM (0V07) and PM (0V08) terminal. The circuit includes two timers: TIMER 1 (2 R005) and TIMER 2 (2 R006). A series of relays (SR01 through SR14) are connected to the timers and other components. The relays are labeled as follows: SR01 (TIMER 2 OFF), SR02 (TIMER 2 ON), SR03 (TIMER 1 OFF), SR04 (TIMER 1 ON), SR05 (MINUTE -), SR06 (MINUTE +), SR07 (HOUR -), SR08 (HOUR +), SR09 (100 SEC), SR10 (10 SEC), SR11 (TIMER SET 2), SR12 (TIMER SET 1), SR13 (CLEAR), and SR14 (TIME ADJ). The output of the relays is connected to a display unit (DR01 through DR04) which is labeled IS2076. The display unit has 12 pins, numbered 1 through 12, which are connected to the relays. The display unit is also connected to a power source (PRO0) and a ground connection.





• [P01-99] Front panel/Chassis and Packing Materials

3.6 Frequency Switch Assembly (PS00)  
Schematic Diagram and Component Location

PT00

ST01 POWER

D101

JU05

JU04

JU07

JU06

ST01

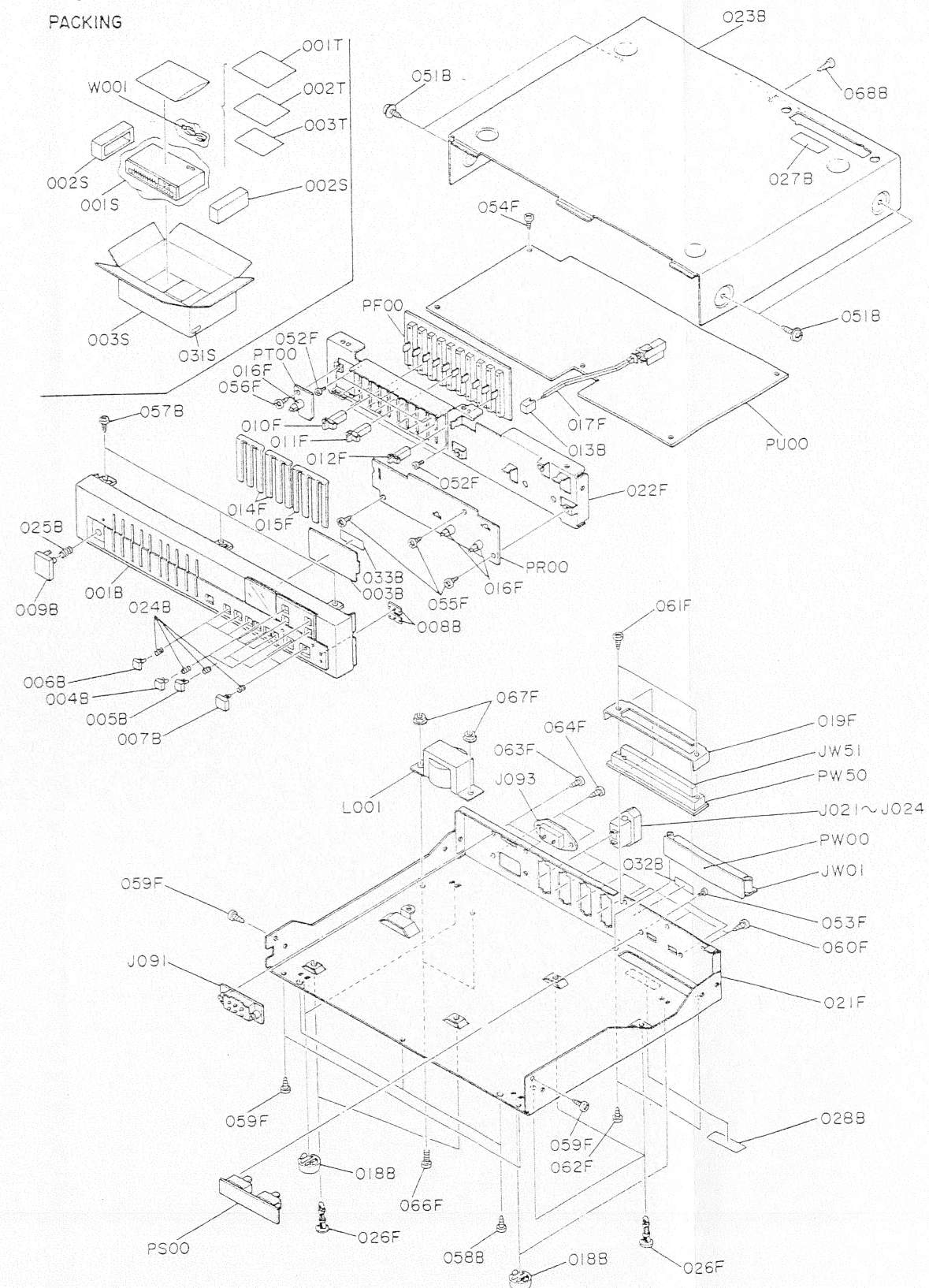
CME-2420-01

PT00

D17

YG-437F9C

• [P01-99] Front panel/Chassis and Packing Materials

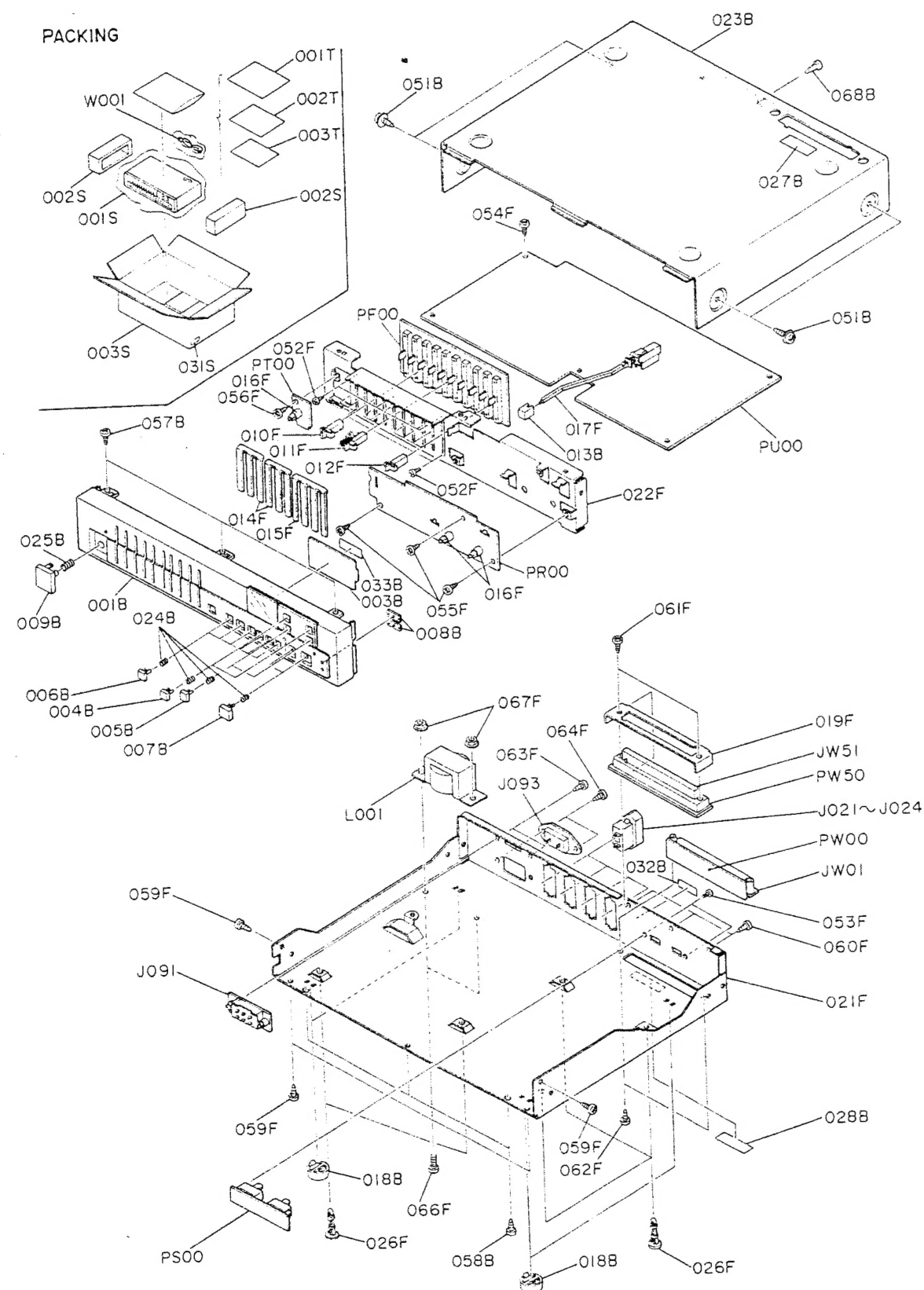


REF. DESIG.	Q'TY		PAF
	N	A	
001B	1	1	184Z
003B	1	1	184Z
004B	2	2	184Z
005B	2	2	184Z
006B	6	6	184Z
007B	2	2	184Z
008B	2	2	184Z
009B	1	1	184Z
013B	1	1	162T
018B	4	4	258H
023B	1	1	184Z
024B	12	12	184Z
025B	1	1	184Z
027B	1	1	184Z
028B	1	1	184Z
032B	1	1	211Z
033B	1	1	184Z
051B	4	4	512B
067B	3	3	512B
058B	3	3	512B
068B	1	1	512B
010F	3	3	184Z
011F	3	3	184Z
012F	4	4	184Z
014F	2	2	184Z
015F	1	1	184Z
016F	3	3	184Z
017F	1	1	258F
019F	1	1	184Z
021F	1	1	184Z
022F	1	1	184Z
026F	5	5	184Z
052F	6	6	510E
053F	2	2	510E
054F	1	1	512B
055F	3	3	512B
056F	1	1	512B
059F	4	4	512B
060F	3	3	512B
061F	2	2	512B
062F	2	2	512B
063F	2	2	512B
064F	2	2	512B
066F	2	2	184Z
067F	2	2	184Z
△J021	1	1	YJ0J
△J022	1	1	YJ0J
△J023	1	1	YJ0J
△J024	1	1	YJ0J
△J091	1	1	SS0J
△J093	1	1	YPO
△L001	1	1	TS10
JW01	1	1	YP1
JW51	1	1	YJ11



#### 4. EXPLODED VIEW AND PARTS LIST

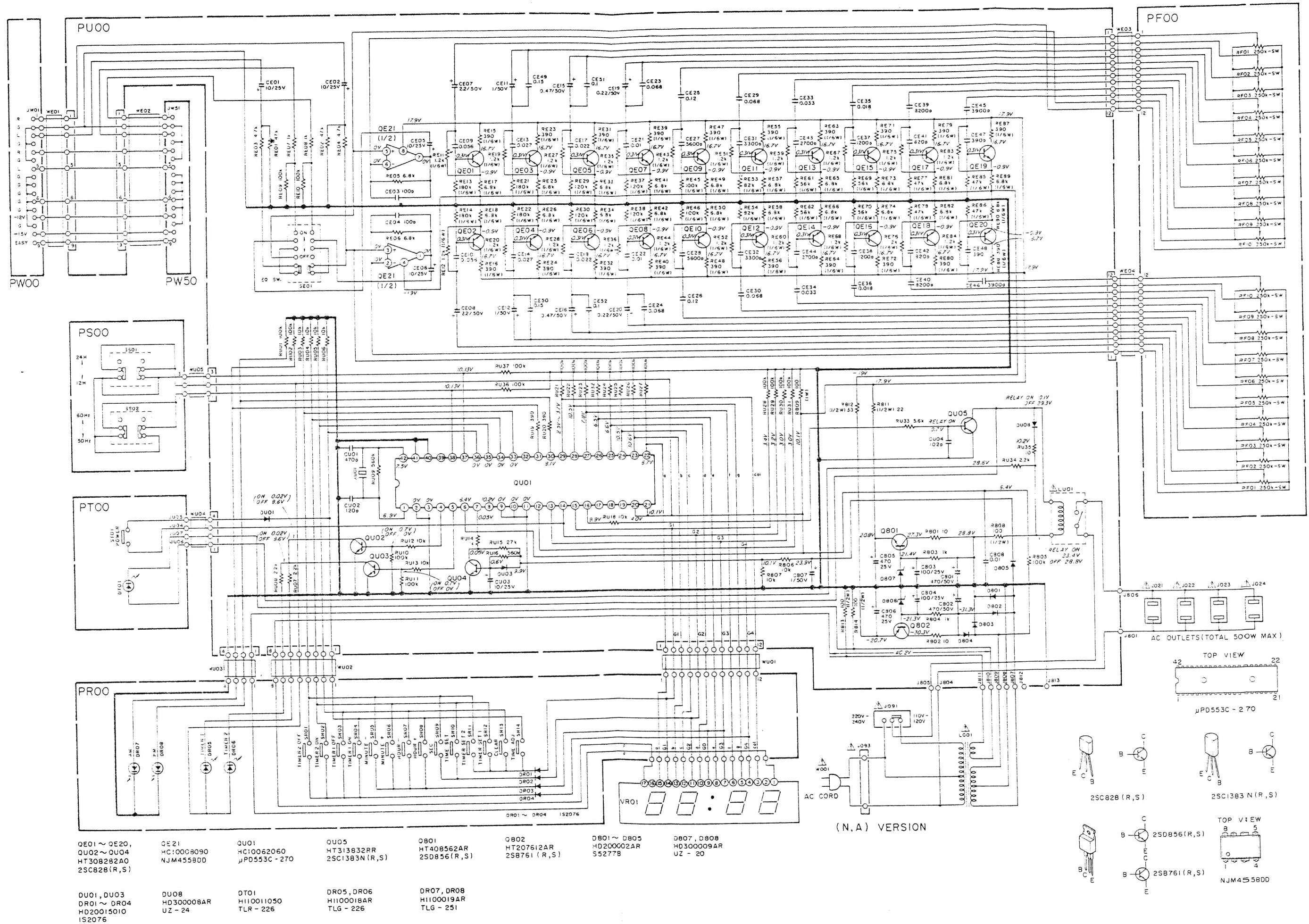
• [P01-99] Front panel/Chassis and Packing Materials



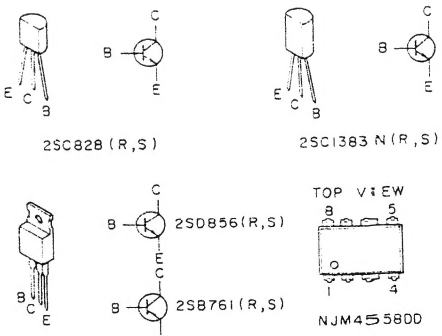
REF. DESIG.	QTY	N	A	PART NO.	DESCRIPTION
001B	1	1		184Z248500	Front Panel
003B	1	1		184Z265010	Indicator, AM/PM
004B	2	2		184Z270010	Button, Timer ON
005B	2	2		184Z270110	Button, Timer OFF
006B	6	6		184Z270020	Button
007B	2	2		184Z270030	Button, Timer Set 1/2
008B	2	2		184Z270040	Button, Timer Adj/Clear
009B	1	1		184Z270050	Button, Power
013B	1	1		162T270020	Button, EQ
018B	4	4		258H057010	Leg
023B	1	1		184Z257110	Lid, Top Cover
024B	12	12		184Z115010	Spring, Button
025B	1	1		184Z115020	Spring, Power Button
027B	1	1		184Z861020	Label
028B	1	1		184Z861040	Label
032B	1	1		2112265110	Indicator, Serial No.
033B	1	1		184Z303030	Mask
051B	4	4		51260306U0	B.T. Screw 83 x 6
057B	3	3		51280308B0	B.H. Tapped Screw 83 x 8
058B	3	3		51280308B0	B.H. Tapped Screw 83 x 8
068B	1	1		51280308B0	B.H. Tapped Screw 83 x 8
010F	3	3		184Z154010	Knob, 31.5Hz ~ 125Hz
011F	3	3		184Z154020	Knob, 250Hz ~ 1KHz
012F	4	4		184Z154030	Knob, 2KHz ~ 16KHz
014F	2	2		184Z303110	Mask
015F	1	1		184Z303120	Mask
016F	3	3		184Z051020	Guide, LED
017F	1	1		258H121020	Link, EQ Switch
019F	1	1		184Z160010	Bracket, Connector
021F	1	1		184Z105030	Chassis, Main
022F	1	1		184Z105010	Chassis, Sub
026F	5	5		184Z101010	Support, Main P.W. Board
052F	6	6		51060203A0	P.H.M. Screw P2 x 3
053F	2	2		51062604A0	P.H.M. Screw P2.6 x 4
054F	1	1		51280308B0	B.H. Tapped Screw 83 x 8
055F	3	3		51280308B0	B.H. Tapped Screw 83 x 8
056F	1	1		51280308B0	B.H. Tapped Screw 83 x 8
059F	4	4		51280308B0	B.H. Tapped Screw 83 x 8
060F	3	3		51280306B0	B.H. Tapped Screw 83 x 6
061F	2	2		51280308B0	B.H. Tapped Screw 83 x 8
062F	2	2		51280308B0	B.H. Tapped Screw 83 x 8
063F	2	2		51280308B0	B.H. Tapped Screw 83 x 8
064F	2	2		51280308B0	B.H. Tapped Screw 83 x 8
066F	2	2		184Z010010	Screw M3 x 8
067F	2	2		184Z011010	Nut M3
△J021	1	1		YJ040008AR	Jack, AC Outlet
△J022	1	1		YJ040008AR	Jack, AC Outlet
△J023	1	1		YJ040008AR	Jack, AC Outlet
△J024	1	1		YJ040008AR	Jack, AC Outlet
△J091	1	1		SS02020560	Slide Switch, Voltage Selector
△J093	1	1		YP04000610	Plug, AC Inlet
△L001	1	1		TS100033AR	Power Transformer
JW01	1	1		YP10002590	Plug, 16P
JW51	1	1		YJ10002020	Jack, 16P

REF. DESIG.	QTY	N	A	PART NO.	DESCRIPTION
001S	1	1		9014249010	PACKING Polyethylene Bag
002S	2	2		240H809040	Cushion
003S	1	1		184Z801010	Packing Case
031S	1	1		9526019060	Serial No. Card
031S	1	1		9526019030	Serial No. Card
001T	1	1		184Z851310	User Manual
002T	1	1		184Z851320	User Manual, Spec
003T	1	1		9631000090	Guarantee Card
△W001	1	1		ZC01805030	A.C. Power Cord
△W001	1	1		ZC02006030	A.C. Power Cord

• (N): for Europe  
• (A): for Australia



- |  |                                |                                     |                                       |                                       |                                    |                                     |                                     |
|--|--------------------------------|-------------------------------------|---------------------------------------|---------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|
| QE01 ~ QE20,<br>QU02 ~ QU04<br>HT308282A0<br>2SC828(R,S) | QE21<br>HC1008090<br>NJM455800 | QU01<br>HC10062060<br>μP0553C - 270 | QU05<br>HT313832RR<br>2SC1383N (R,S)  | Q801<br>HT408562AR<br>2SD856(R,S)     | Q802<br>HT207612AR<br>2S8761 (R,S) | D801 ~ D805<br>HD200002AR<br>552778 | D807, D808<br>HD300009AR<br>UZ - 20 |
| DU01, DU03<br>DR01 ~ DR04<br>HD20015010<br>IS2076        | DU08<br>HD300008AR<br>UZ - 24  | DT01<br>HI10011050<br>TLR - 226     | DR05, DR06<br>HI100018AR<br>TLG - 226 | DR07, DR08<br>HI100019AR<br>TLG - 251 |                                    |                                     |                                     |





# 5. ELECTRICAL PARTS LIST

• (N): for Europe  
• (A): for Australia

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	A		
PF00	1	1	YF184Z0010	PF00-EQ VOLUME
	1	1	ZZ184Z0010	CIRCUIT BOARD
RF01	1	1		P.W. Board, EQ Volume
RF10	1	1		P.W. Board Assembly
WE03	1	1	YU120002AR	Variable Resistor 250K $\Omega$ (G) x 2
WE04	1	1	YU120001AR	
PR00	1	1	YH184Z1620	PR00-DISPLAY
	1	1	ZZ184Z1620	CIRCUIT BOARD
DR01	1	1	HD20015010	P.W. Board, Display
DR02	1	1	HD20015010	P.W. Board Assembly
DR03	1	1	HD20015010	PR00-SEMICONDUCTORS
DR04	1	1	HD20015010	Diode 1S2076
DR05	1	1	HD20015010	Diode 1S2076
DR06	1	1	HD20015010	Diode 1S2076
DR07	1	1	HD20015010	Diode 1S2076
DR08	1	1	HD20015010	Diode 1S2076
SR01	1	1	HI100018AR	L.E.D. TLG-226
SR14	1	1	HI100018AR	L.E.D. TLG-226
VR01	1	1	HI100019AR	L.E.D. TLG-251
WU01	1	1	HI100019AR	L.E.D. TLG-251
WU02	1	1	HI100019AR	L.E.D. TLG-251
WU03	1	1	HI100019AR	L.E.D. TLG-251
PS00	1	1	SP010103AR	PR00-MISCELLANEOUS
	1	1	SP010103AR	Push Switch
SS01	1	1	HQ30403410	Display Unit
SS02	1	1	HQ30403410	
WU05	1	1	YU03140260	Jumper Lead, 3P
PT00	1	1	YH184Z1630	PS00-FREQUENCY SWITCH
DT01	1	1	ZZ184Z1630	CIRCUIT BOARD
ST01	1	1	YH184Z1630	P.W. Board, Frequency Switch
WU04	1	1	ZZ184Z1630	P.W. Board Assembly
SS01	1	1	SS02020640	Slide Switch
SS02	1	1	SS02020640	Slide Switch
WU05	1	1	YU03140260	Jumper Lead, 3P
PT00	1	1	YH184Z1640	PT00-POWER SWITCH
DT01	1	1	ZZ184Z1640	CIRCUIT BOARD
ST01	1	1	YH184Z1640	P.W. Board, Power Switch
WU04	1	1	ZZ184Z1640	P.W. Board Assembly

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	A		
PU00	1	1	YH184Z1610	PU00-MAIN CIRCUIT BOARD
	1	1	ZZ184Z1610	P.W. Board, Main
CE01	1	1	EA10602510	P.W. Board Assembly
CE02	1	1	EA10602510	PU00-CAPACITORS
CE03	1	1	DK16101300	Elect 10 $\mu$ F 25V
CE04	1	1	DK16101300	Elect 10 $\mu$ F 25V
CE05	1	1	EA10602510	Ceramic 100pF $\pm$ 10%
CE06	1	1	EA10602510	Ceramic 100pF $\pm$ 10%
CE07	1	1	EA10602510	Elect 10 $\mu$ F 25V
CE08	1	1	EA10602510	Elect 10 $\mu$ F 25V
CE09	1	1	EA22505010	Elect 2.2 $\mu$ F 50V
CE10	1	1	EA22505010	Elect 2.2 $\mu$ F 50V
CE11	1	1	DF16563300	Film 0.056 $\mu$ F $\pm$ 10%
CE12	1	1	DF16563300	Film 0.056 $\mu$ F $\pm$ 10%
CE13	1	1	EA10505010	Elect 1 $\mu$ F 50V
CE14	1	1	EA10505010	Elect 1 $\mu$ F 50V
CE15	1	1	DF16273300	Film 0.027 $\mu$ F $\pm$ 10%
CE16	1	1	DF16273300	Film 0.027 $\mu$ F $\pm$ 10%
CE17	1	1	EA47405010	Elect 0.47 $\mu$ F 50V
CE18	1	1	EA47405010	Elect 0.47 $\mu$ F 50V
CE19	1	1	DF16223300	Film 0.022 $\mu$ F $\pm$ 10%
CE20	1	1	DF16223300	Film 0.022 $\mu$ F $\pm$ 10%
CE21	1	1	EA22405010	Elect 0.22 $\mu$ F 50V
CE22	1	1	EA22405010	Elect 0.22 $\mu$ F 50V
CE23	1	1	DF16103300	Film 0.01 $\mu$ F $\pm$ 10%
CE24	1	1	DF16103300	Film 0.01 $\mu$ F $\pm$ 10%
CE25	1	1	DF16683300	Film 0.068 $\mu$ F $\pm$ 10%
CE26	1	1	DF16683300	Film 0.068 $\mu$ F $\pm$ 10%
CE27	1	1	DF16124300	Film 0.12 $\mu$ F $\pm$ 10%
CE28	1	1	DF16124300	Film 0.12 $\mu$ F $\pm$ 10%
CE29	1	1	DF16562300	Film 5600pF $\pm$ 10%
CE30	1	1	DF16562300	Film 5600pF $\pm$ 10%
CE31	1	1	DF16683300	Film 0.068 $\mu$ F $\pm$ 10%
CE32	1	1	DF16683300	Film 0.068 $\mu$ F $\pm$ 10%
CE33	1	1	DF16332300	Film 3300pF $\pm$ 10%
CE34	1	1	DF16332300	Film 3300pF $\pm$ 10%
CE35	1	1	DF16333300	Film 0.033 $\mu$ F $\pm$ 10%
CE36	1	1	DF16333300	Film 0.033 $\mu$ F $\pm$ 10%
CE37	1	1	DF16183300	Film 0.018 $\mu$ F $\pm$ 10%
CE38	1	1	DF16183300	Film 0.018 $\mu$ F $\pm$ 10%
CE39	1	1	DF16122300	Film 1200pF $\pm$ 10%
CE40	1	1	DF16122300	Film 1200pF $\pm$ 10%
CE41	1	1	DF16822300	Film 8200pF $\pm$ 10%
CE42	1	1	DF16822300	Film 8200pF $\pm$ 10%
CE43	1	1	DK16821300	Ceramic 820pF $\pm$ 10%
CE44	1	1	DK16821300	Ceramic 820pF $\pm$ 10%
CE45	1	1	DF16272300	Film 2700pF $\pm$ 10%
CE46	1	1	DF16272300	Film 2700pF $\pm$ 10%
CE47	1	1	DF16392300	Film 3900pF $\pm$ 10%
CE48	1	1	DF16392300	Film 3900pF $\pm$ 10%
CE49	1	1	DK16391300	Ceramic 390pF $\pm$ 10%
CE50	1	1	DK16391300	Ceramic 390pF $\pm$ 10%
CE51	1	1	DF16154300	Film 0.15 $\mu$ F $\pm$ 10%
CE52	1	1	DF16154300	Film 0.15 $\mu$ F $\pm$ 10%
CE53	1	1	DF16104300	Film 0.1 $\mu$ F $\pm$ 10%
CE54	1	1	DF16104300	Film 0.1 $\mu$ F $\pm$ 10%

- (N): for Europe
- (A): for Australia

REF. DESIG.	QTY		PART NO.	DESCRIPTION	
	N	A			
CU01	1	1	DK16471300	Ceramic	470pF $\pm 10\%$
CU02	1	1	DK16121300	Ceramic	120pF $\pm 10\%$
CU03	1	1	EA10602510	Elect	10 $\mu$ F 25V
CU04	1	1	DK16101300	Ceramic	100pF $\pm 10\%$
C801	1	1	EA47705030	Elect	470 $\mu$ F 50V
C802	1	1	EA47705030	Elect	470 $\mu$ F 50V
C803	1	1	EA10702510	Elect	100 $\mu$ F 25V
C804	1	1	EA10702510	Elect	100 $\mu$ F 25V
C805	1	1	EA47702510	Elect	470 $\mu$ F 25V
C806	1	1	EA47702510	Elect	470 $\mu$ F 25V
C807	1	1	EA10505010	Elect	1 $\mu$ F 50V
C808	1	1	DK17103300	Ceramic	0.01 $\mu$ F $\pm 20\%$
PU00-RESISTORS					
(All Resistors are $\pm 5\%$ and $\frac{1}{4}W$ )					
RE01	1	1	GD05473140	47K $\Omega$	
RE02	1	1	GD05473140	47K $\Omega$	
RE03	1	1	GD05472140	4.7K $\Omega$	
RE04	1	1	GD05472140	4.7K $\Omega$	
RE05	1	1	GD05682140	6.8K $\Omega$	
RE06	1	1	GD05682140	6.8K $\Omega$	
RE07	1	1	GD05102140	1K $\Omega$	
RE08	1	1	GD05102140	1K $\Omega$	
RE09	1	1	GD05104140	100K $\Omega$	
RE10	1	1	GD05104140	100K $\Omega$	
RE11	1	1	GD05122160	1.2K $\Omega$	1/6W
RE12	1	1	GD05122160	1.2K $\Omega$	1/6W
RE13	1	1	GD05184160	180K $\Omega$	1/6W
RE14	1	1	GD05184160	180K $\Omega$	1/6W
RE15	1	1	GD05391160	390 $\Omega$	1/6W
RE16	1	1	GD05391160	390 $\Omega$	1/6W
RE17	1	1	GD05682160	6.8K $\Omega$	1/6W
RE18	1	1	GD05682160	6.8K $\Omega$	1/6W
RE19	1	1	GD05122160	1.2K $\Omega$	1/6W
RE20	1	1	GD05122160	1.2K $\Omega$	1/6W
RE21	1	1	GD05184160	180K $\Omega$	1/6W
RE22	1	1	GD05184160	180K $\Omega$	1/6W
RE23	1	1	GD05391160	390 $\Omega$	1/6W
RE24	1	1	GD05391160	390 $\Omega$	1/6W
RE25	1	1	GD05682160	6.8K $\Omega$	1/6W
RE26	1	1	GD05682160	6.8K $\Omega$	1/6W
RE27	1	1	GD05122160	1.2K $\Omega$	1/6W
RE28	1	1	GD05122160	1.2K $\Omega$	1/6W
RE29	1	1	GD05124160	120K $\Omega$	1/6W
RE30	1	1	GD05124160	120K $\Omega$	1/6W
RE31	1	1	GD05391160	390 $\Omega$	1/6W
RE32	1	1	GD05391160	390 $\Omega$	1/6W
RE33	1	1	GD05682160	6.8K $\Omega$	1/6W
RE34	1	1	GD05682160	6.8K $\Omega$	1/6W
RE35	1	1	GD05122160	1.2K $\Omega$	1/6W
RE36	1	1	GD05122160	1.2K $\Omega$	1/6W
RE37	1	1	GD05124160	120K $\Omega$	1/6W
RE38	1	1	GD05124160	120K $\Omega$	1/6W
RE39	1	1	GD05391160	390 $\Omega$	1/6W
RE40	1	1	GD05391160	390 $\Omega$	1/6W

REF. DESIG.	QTY		PART NO.	DESCRIPTION	
	N	A			
RE41	1	1	GD05682160	6.8K $\Omega$	1/6W
RE42	1	1	GD05682160	6.8K $\Omega$	1/6W
RE43	1	1	GD05122160	1.2K $\Omega$	1/6W
RE44	1	1	GD05122160	1.2K $\Omega$	1/6W
RE45	1	1	GD05104160	100K $\Omega$	1/6W
RE46	1	1	GD05104160	100K $\Omega$	1/6W
RE47	1	1	GD05391160	390 $\Omega$	1/6W
RE48	1	1	GD05391160	390 $\Omega$	1/6W
RE49	1	1	GD05682160	6.8K $\Omega$	1/6W
RE50	1	1	GD05682160	6.8K $\Omega$	1/6W
RE51	1	1	GD05122160	1.2K $\Omega$	1/6W
RE52	1	1	GD05122160	1.2K $\Omega$	1/6W
RE53	1	1	GD05823160	82K $\Omega$	1/6W
RE54	1	1	GD05823160	82K $\Omega$	1/6W
RE55	1	1	GD05391160	390 $\Omega$	1/6W
RE56	1	1	GD05391160	390 $\Omega$	1/6W
RE57	1	1	GD05682160	6.8K $\Omega$	1/6W
RE58	1	1	GD05682160	6.8K $\Omega$	1/6W
RE59	1	1	GD05122160	1.2K $\Omega$	1/6W
RE60	1	1	GD05122160	1.2K $\Omega$	1/6W
RE61	1	1	GD05563160	56K $\Omega$	1/6W
RE62	1	1	GD05563160	56K $\Omega$	1/6W
RE63	1	1	GD05391160	390 $\Omega$	1/6W
RE64	1	1	GD05391160	390 $\Omega$	1/6W
RE65	1	1	GD05682160	6.8K $\Omega$	1/6W
RE66	1	1	GD05682160	6.8K $\Omega$	1/6W
RE67	1	1	GD05122160	1.2K $\Omega$	1/6W
RE68	1	1	GD05122160	1.2K $\Omega$	1/6W
RE69	1	1	GD05563160	56K $\Omega$	1/6W
RE70	1	1	GD05563160	56K $\Omega$	1/6W
RE71	1	1	GD05391160	390 $\Omega$	1/6W
RE72	1	1	GD05391160	390 $\Omega$	1/6W
RE73	1	1	GD05682160	6.8K $\Omega$	1/6W
RE74	1	1	GD05682160	6.8K $\Omega$	1/6W
RE75	1	1	GD05122160	1.2K $\Omega$	1/6W
RE76	1	1	GD05122160	1.2K $\Omega$	1/6W
RE77	1	1	GD05473160	47K $\Omega$	1/6W
RE78	1	1	GD05473160	47K $\Omega$	1/6W
RE79	1	1	GD05391160	390 $\Omega$	1/6W
RE80	1	1	GD05391160	390 $\Omega$	1/6W
RE81	1	1	GD05682160	6.8K $\Omega$	1/6W
RE82	1	1	GD05682160	6.8K $\Omega$	1/6W
RE83	1	1	GD05122160	1.2K $\Omega$	1/6W
RE84	1	1	GD05122160	1.2K $\Omega$	1/6W
RE85	1	1	GD05473160	47K $\Omega$	1/6W
RE86	1	1	GD05473160	47K $\Omega$	1/6W
RE87	1	1	GD05391160	390 $\Omega$	1/6W
RE88	1	1	GD05391160	390 $\Omega$	1/6W
RE89	1	1	GD05682160	6.8K $\Omega$	1/6W
RE90	1	1	GD05682160	6.8K $\Omega$	1/6W
RU01	1	1	GD05104140	100K $\Omega$	
RU02	1	1	GD05104140	100K $\Omega$	
RU03	1	1	GD05103140	10K $\Omega$	
RU04	1	1	GD05103140	10K $\Omega$	
RU05	1	1	GD05103140	10K $\Omega$	
RU06	1	1	GD05103140	10K $\Omega$	
RU07	1	1	GD05222140	2.2K $\Omega$	
RU08	1	1	GD05222140	2.2K $\Omega$	
RU09	1	1	GD05564140	560K $\Omega$	
RU10	1	1	GD05104140	100K $\Omega$	



- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION	
	N	A			
RU11	1	1	GD05104140	100K $\Omega$	
RU12	1	1	GD05103140	10K $\Omega$	
RU13	1	1	GD05103140	10K $\Omega$	
RU14	1	1	GD05102140	1K $\Omega$	
RU15	1	1	GD05273140	27K $\Omega$	
RU16	1	1	GD05564140	560K $\Omega$	
RU18	1	1	GD05103140	10K $\Omega$	
RU19	1	1	GD05391140	390 $\Omega$	
RU20	1	1	GD05391140	390 $\Omega$	
RU21					
?	12	12	GD05104140	100K $\Omega$	
RU32					
RU33	1	1	GD05562140	5.6K $\Omega$	
RU34	1	1	GD05222140	2.2K $\Omega$	
RU35	1	1	GD05100140	10 $\Omega$	
RU36	1	1	GD05104140	100K $\Omega$	
RU37	1	1	GD05104140	100K $\Omega$	
RU38	1	1	GD05104140	100K $\Omega$	
R801	1	1	GD05100140	10 $\Omega$	
R802	1	1	GD05100140	10 $\Omega$	
R803	1	1	GD05102140	1K $\Omega$	
R804	1	1	GD05102140	1K $\Omega$	
R805	1	1	GD05104140	100K $\Omega$	
R806	1	1	GD05103140	10K $\Omega$	
R807	1	1	GD05103140	10K $\Omega$	
R808	1	1	GD0510112R	100 $\Omega$	1/2W
R809	1	1	GJ05101010	100 $\Omega$	1W
R811	1	1	GD0522012R	22 $\Omega$	1/2W
R812	1	1	GD0533012R	33 $\Omega$	1/2W
R813	1	1	GD0510112R	100 $\Omega$	1/2W
R814	1	1	GD0510112R	100 $\Omega$	1/2W
PU00-SEMICONDUCTORS					
QE01					
?	20	20	HT308282A0	Transistor	2SC828(R, S)
QE20					
QE21	1	1	HC10008090	IC	NJM4558DD
QU01	1	1	HC10062060	IC	$\mu$ PD553C-270
QU02	1	1	HT308282A0	Transistor	2SC828(R, S)
QU03	1	1	HT308282A0	Transistor	2SC828(R, S)
QU04	1	1	HT308282A0	Transistor	2SC828(R, S)
QU05	1	1	HT313832RR	Transistor	2SC1383N(R, S)
Q801	1	1	HT408562AR	Transistor	2SD856(R, S)
Q802	1	1	HT207612AR	Transistor	2SB761(R, S)
DU01	1	1	HD20015010	Diode	1S2076
DU03	1	1	HD20015010	Diode	1S2076
DU08	1	1	HD300008AR	Zener	UZ-24
D801	1	1	HD200002AR	Diode	S5277B
D802	1	1	HD200002AR	Diode	S5277B
D803	1	1	HD200002AR	Diode	S5277B
D804	1	1	HD200002AR	Diode	S5277B
D805	1	1	HD200002AR	Diode	S5277B
D807	1	1	HD300009AR	Zener	UZ-20
D808	1	1	HD300009AR	Zener	UZ-20

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION	
	N	A			
WE01	1	1	YJ06002470	Jack, 9P	
WE02	1	1	YJ06002470	Jack, 9P	
WE03	1	1	YJ06002280	Jack, 12P	
WE04	1	1	YJ06002280	Jack, 12P	
WU01	1	1	YJ06002280	Jack, 12P	
WU02	1	1	YJ06002270	Jack, 8P	
WU03	1	1	YJ06002440	Jack, 4P	
WU04	1	1	YJ06002440	Jack, 4P	
WU05	1	1	YJ06002430	Jack, 3P	
J813	1	1	YL01010110	Terminal, Earth	
ΔLU01	1	1	LY124001AR	Relay, 14V	
SE01	1	1	SP040102AR	Push Switch, EQ	
XU01	1	1	EQ0400301R	Ceramic Vibrator, 400kHz	
PW00-INPUT CONNECTOR CIRCUIT BOARD					
PW00	1	1	YH184Z1650	P.W. Board, Input Connector	
	1	1	ZZ184Z1650	P.W. Board Assembly	
JW01	1	1	YP10002590	Plug, 16P	
WE01	1	1	YU090001AR	Jumper Lead, 9P	
PW50-OUTPUT CONNECTOR CIRCUIT BOARD					
PW50	1	1	YH184Z1660	P.W. Board, Output Connector	
	1	1	ZZ184Z1660	P.W. Board Assembly	
JW51	1	1	YJ10002020	Jack, 16P	
WE02	1	1	YU090002AR	Jumper Lead, 9P	

(W01-99)	Assembly and Wiring
(T01-99)	Adjustment
(X01-00)	Correction

#### NOTE ON SAFETY:

Symbol  $\Delta$  Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol  $\Delta$ . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

## 6. TECHNICAL SPECIFICATIONS

### AUDIO SECTION

RATED OUTPUT	150 mV
TOTAL HARMONIC DISTORTION AT RATED OUTPUT, 20 Hz TO 20 kHz	0.005%
I.M. DISTORTION AT RATED OUTPUT (250 Hz AND 8 kHz MIXED, AMPLITUDE RATIO 4:1)	0.005%
Sensitivity for Rated Output	150 mV
Frequency Response ( $\pm 1$ dB)	20 Hz ~ 40 kHz
Signal-to-Noise Ratio	95 dB
Channel Balance	$\pm 1$ dB
Inter Channel Crosstalk (1 kHz)	60 dB
Output Voltage (1 kHz)	3V
Input Impedance (1 kHz)	47 kohms
Output Impedance (1 kHz)	
LINE OUT	600 ohms
EQ Action for each channel (31.5 Hz, 63 Hz, 125 Hz, 250 Hz, 500 Hz, 1 kHz, 2 kHz, 4 kHz, 8 kHz, 16 kHz)	$\pm 12$ dB

### GENERAL

Power Requirement	AC 110–120V/220–240V, 50/60 Hz
Power Consumption	12W
Digital Display	4 digits fluorescent tube
Time Indication Accuracy	Depends on AC mains frequency
Outlet Rating	Total 500W Max.
Dimensions (W x H x D)	320 x 55 x 260 mm
Weight	2.5 kg

Specifications and appearance are subject to change for modification without notice.



## MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ company has created the ultimate in stereo sound. Only original MARANTZ parts can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ equipment are generally available to our National Marantz Subsidiary or Agent.

### ORDERING PARTS:

Parts can be ordered either by mail or by telex. In both cases, MARANTZ part number has to be specified. If you order by mail, fulfil MARANTZ order forms.

MARANTZ S.A.  
EUROPEAN PARTS DEPARTMENT  
2, Avenue Léopold III  
B-7120 PERONNES-lez-BINCHE  
BELGIUM  
TWX: 57589 SEPLT B

The following information must be supplied to eliminate delays in processing your order:

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature: any order form or telex must be signed otherwise such part order will be considered as null and void.

### PARTS ORDERING:

Parts may be ordered from the following addresses:

#### EUROPE

**MARANTZ S.A.**  
European Parts Department  
2, Avenue Léopold III  
B-7120 Péronnes-lez-Binche  
Belgium  
Telex: 57589

**MARANTZ DENMARK**  
Bregnerødvej 132b  
3460 Birkerød  
Denmark  
Telex: 39137

**MARANTZ BELGIUM**  
45 Rue Auguste Van Zande  
1080 Brussels  
Belgium

**MARANTZ NEDERLAND B.V.**  
Wagenmakersweg 3  
3449 HV Woerden  
Netherlands

**MARANTZ S.A.**  
326 Avenue Louise Bte 32  
1050 Bruxelles  
Belgium  
Telex: 26602

**MARANTZ FRANCE**  
4 Rue Bernard Palissy  
92600 Asnières  
France  
Telex: 611651

**MARANTZ SVENSKA A.B.**  
Svertviksvägen 56  
Träneberg Bromma  
Sweden  
Telex: 13449

**MARANTZ ITALIANA S.p.A.**  
Via Monte Napoleone, 10  
20121 Milano  
Italia

**MARANTZ GERMANY G.M.B.H.**  
Max-Planckstrasse 22  
6072 Dreieich 1  
Germany  
Telex: 4185316

**MARANTZ AUDIO U.K. LTD.**  
Unit 15/16  
Saxon Way Industrial Estate  
Moor Lane  
Harmondsworth UB7 0LW  
Great Britain  
Telex: 935196

**MARANTZ AUSTRIA Ge.M.B.H.**  
25 Franz Lisztgasse  
2380 Perchtoldsdorf  
Austria  
Telex: 113583

#### AUSTRALIA

**MARANTZ AUSTRALIA PTY., LTD.**  
19 Chard Road  
Brookvale, NSW 2100  
Australia  
Telex: 24121

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please, contact the nearest facility for the necessary assistance.

In case of difficulties, do not hesitate to contact the Technical Department at abovementioned address.

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